

Final Rank	Goal/Action	Econ Benefits	Enviro Benefits	Health Benefits	Social Benefits	Level of Effort	Benefit Relative to Cost	Time frame	Overlaps	Agencies or Partners	Indicators & Metrics	Action Type
Built Environment												
1	ACTION: Rehab all low-income housing to be green and healthy	H	M	H	H	H	H	S-M	Energy, Waste, Green Economy	DHCD, DCHA*, HFA, DMPED, OP, zoning, DCRA, DDOE, DGS, DDOT, enterprise community partners, LISC, DCSEU, DC Water	establishing baseline benchmarks for all the existing properties (mapping affordable housing is sub-task). End product must remain affordable as well as reducing energy & water use and improving air and material health--improvements to efficiency can make it more affordable	policy to authorize this baseline study or other mechanism
2	GOAL: Improve energy efficiency (especially in existing buildings), for overall net energy use reduction of [x%] by [2020?]?	H	H	M	M	H	H	S-M	Energy, Climate, Green Economy	DDOE, DCRA, BIDS, DCBIA, AOBA, IMT, utilities, DCSEU, USGBC, OP, DMPED, universities, hospitals, feds, DHCD, ACEEE	Better building challenge (20% by 2020 Better Buildings Challenge?, % participation), % energy reduction total or per unit [sq ft, employees, inhabitants], also looking at energy generation with larger goal of net generation	regulatory changes, incentives for multiple approaches, aggressive building codes
3	GOAL: All flat roof surfaces to be green, cool, solar, or otherwise use-optimized by 2035	L-M	M	M	M-H	M-H	M	L	Water, Climate, Energy	DDOE, DC WATER, OP, Utilities, consultants with expertise, solar city, private enterprises	3 million feet of green roofs by 2020, heat island metrics, % of all roofs that are green/cool/solar, attention to new ways of optimizing roof usage	roof mapping, make green & cool roofs aesthetically pleasing, bringing in technical expertise, demonstration/exhibitions to drive leading edge, training of existing roofing workers, building local capacity
4	GOAL: Make building performance data transparent and accessible for all buildings	H	H	L	M	L	H	S	Energy, Climate	DDOE, OCTO, PSC, Institute for Market Transformation, Utility companies, DC SEU	explaining context is critically important, regular evaluation, labeling posted in building, real-time monitoring, make presentation consistent; metrics for waste management, water use, air quality also must be incorporated	legislation, IT innovation

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5	GOAL: Achieve a 40% tree canopy by 2035	M	H	M	M	M	H	M	Climate, Nature, Water	casey trees, DDOT, urban forestry admin, National parks, dgs, ddoe, dc water, cooperative extention services,	8600 trees/yr, w mortality rate of 6%, tree report card, iTree eco, geolocating of all trees with community participation for updating	enforcement and updating of urban forest preservation act, MS4, maintainence and broader professional support for tree care, build local capacity, need tree farm and sedum, tree and slope overlay protection area, identification of where trees should be planted for ideal shading for energy/water conservation, LID
6	ACTIONS: Remove split incentives between landlords and tenants in both residential & commercial sectors that block investment in energy efficiency, such as allowing submetering in residential sector without undermining rent control	H	M	L	H	H	H	S-M		DC Council	demonstrating clearly who is paying and who is accruing the benefits,	Legislative change for residential submetering, green leases (esp. in commercial), education (esp. champions from both landlord and tenant sides), PACE?, many other mechanisms need to be identified and invented
7	GOAL: Achieve reduced construction/deconstruction waste and increase diversion of waste [reuse is priority; then recycling]: minimum of 35% of all construction and demolition waste by 2015; 50% by 2020 and 90% by 2030	H	H	M	M	M	H	S-L	Waste	DCRA, community forklift	report % deconstruction and waste diversion -tie to Cert of occupancy;	Public announcment for buildings that need to be demolished, and incentivizing deconstruction as process and market sector; incetivizing deconstruction in tax structure; increase market for these goods; action plan that targets art industry to reuse waste as art; increase cost of disposal; new codes
8	GOAL: Create leading examples of sustainability in residential sector (both single and multi-family), overall impact is small but aim is to lead by example										Achieve [250] Certified Passive Homes in the District by 2016, and [500] by 2020 (through new construction or retrofit) & Achieve [100] Homes built to meet the standards of the Living Building Challenge by 2016, and [200] by 2020 [numbers unrealistic?]	need to integrate pilot approach into standard practice (this often gets forgotten) --> these mechanisms are critical; education of inspectors/dcra; remove regulatory barriers;
9	GOAL: Increase efficiency of land use and infrastructure by increasing density, reducing parking requirements, and creating walkable communities.										density measures, max heights, FAR, % of zoning envelope occupied + increase envelope	revise zoning codes, remove minimum parking requirements (or max?), zoning for solar access so density doesn't block sun; greater building heights are one option
10	ACTION: Implement performance-based energy codes for new construction and major renovations	H	H	L	L	L-M	H	S-M	Energy			

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11	ACTION: Mandate energy audits of all buildings, including residential single-family, with transactional disclosure (sale/lease), and public reporting (online and onsite) of audit results for buildings over 25,000 sq ft	M	L	L	M	M	H	M	Energy, Climate	DC Council, DDOE, OCTO, PSC, Institute for Market Transformation, Utility companies, DC SEU		legislation!
12	GOAL: Create financial products that align public and private sectors to incentivize private capital and developers to enter underserved markets and raise the sustainability bar	H	M	M	M	H	H	L	Green Economy	OCFO, Council, DC Bank (if created)		identify private & public sources of capital, identify existing programs and current resources; developing new programs; give banks who are financing attractive projects credit for their investment in city as a whole; explore ways to minimize risk
13	ACTION: Transform property tax into a value capture user fee (or "split-rate" tax) by reducing tax on buildings and increasing tax on land										reductions in vacant lots and boarded up buildings, increase in bldg permit activity,	legislation!
14	ACTION: Incentivize and eventually mandate retrofits of poorest performing buildings	H	M	H	H	H	M	M	Energy, Water, Green Economy	DCRA, DDOE	# or retrofits done; level of retrofit	retrofits on neighborhood scale
15	GOAL: Create neighborhoods with a balance of uses within walkable distances	H	H	H	H	H	H	Long	Transportation	costar; office of economic partnership; Popularize	walkscore; multi modeal transit; incorporate into mapping tools; evaluation of diversity and quality of ammenities incl. sidewalks;	Wayfinding/wayfarer signage, lighting audit for walkability (w/o light polution); make corner stores easier; sidewalk audit;
16	GOAL: Reduce water use and increase on-site energy production with long-term goal of water and energy neutrality or net positive	H	H	L	L	M-H	H	S-L			reduction in energy/water use and increase in output	legislation/regulation/incentives for greywater; education; feed-in tarrifs [guarenteed return on input to grid], same with water?; smart lighting controls (photosensitive); onsite solar/wind/geothermal energy production
17	ACTION: Make solar thermal use widespread -> most buildings can meet all their hot water needs with solar thermal									solar coops	market penetration for solar thermal;	inctivize with tax breaks, rebates, codes; supporting solar coops; regulatory change to allow sharing (and storage) of excess heat production with neighbors;
18	GOAL: Relieve pressure on water infrastructure and natural waterways by improving stormwater management	H	H	M	M	H	H	M	Water, Nature	DDOT	reduction in stormwater runoff and surge w/o impairment of groundwater; # of LID projects (900 possible identified by DDOE); calculate amount of permeable surface needed to reduce stormwater runoff/surge and identify hotspot to priority target (total surface management)	permeable sidewalks, alleys, streets, parking lots; incorporate in redevelopment plans by DDOT; build in capactiy to maintain (pervious services need dif. Maintainance)

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19	ACTION: Simplify license agreements and district regulations to promote use of vacant lots on a temporary or permanent basis for urban agriculture and community gardens, as well as temporary uses, such as art installations and short term retail businesses	H	H	H	H	L	H	S			# and sq ft of vacant lots being used as gardens and other uses	legislative action; improve quick claim deed system;
20	GOAL: Make all new buildings carbon neutral , or net energy producers, by 2030	H	H	H	M	H	H	L	Climate, Water, Energy	partner w/ arch 2030	# and % of carbon neutral buildings	
21	GOAL: Develop free Wi-Fi infrastructure as a public equity amenity										% of district covered by it; # of access points; bandwidth	
22	ACTION: Require active public disclosure of energy performance for all buildings >25,000 sq ft by 2016	M	M	L	M	L	H	S	Energy, Climate	DC Council, DDOE, OCTO, PSC, Institute for Market Transformation, Utility companies, DC SEU		legislation!
23	ACTION: Draw on the UDC as educational center for sustainability, including agricultural program and establish a nursery for sedum and green roof plantings at Oak Hill, Poplar Point or other open land, and include training programs for train residents in growing plants for green roofs	M	H	M	H	M	H	L	Food			
24	GOAL: Require utilities at all levels to demonstrate the adoption of sustainable practices, designs and systems	H	H	M	H	M	H	S	Water, Waste, Energy	PSC, utilities	yearly reporting of utility progress and projections of what they will do (1, 3, 5yr) incl money invested; utilities make available what their practices etc are;	
25	ACTION: By 2013, Allow in regulations and incentivize use of gray water systems, waterless urinals, living machines.								Water	cf above		
Climate												
1	DC adopts a CO2 reduction goal of 1% by 2015, 10% by 2020, 50% by 2025 and 80% by 2040 (from the 2006 baseline) to guide level of effort associated with energy economy transformation and the related energy, building, and transportation sectors.											
	Strengthen and expand role of SEU to reduce CO ₂ by 1) establishing a sheltered account for SEU funds so that they cannot be used elsewhere and 2) modifying SEU performance metrics to prioritize carbon reduction.									DDOE (accountability) – Percent CO2e reduction per dollar invested		
	Set higher renewable portfolio standard (RPS) thresholds: 35% renewable by 2025 and 65% renewable by 2050.									Requires legislation		

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	Create a fee-and-dividend style carbon tax to capture the true costs of products and services.									Requires legislation; OTR or DDOE administers		
	Incorporate multicycle cogeneration & district systems (heating, cooling & electricity) into design of suitably sized developments and District facilities as appropriate.									DCRA/Dept. General Services/Housing Authority – BTU heating/cooling & kW/hrs derived from cogeneration		
	Put geothermal into recreation/school fields and other sites for neighborhood district systems where feasible.									DGS – Capacity & output from geothermal		
	Implement Power Purchase Agreements at DCPS facilities in order to facilitate solar photovoltaic financing and installation.									DGS – Capacity & output from PPAs		
2	<i>DC will ensure that all sectors contribute to emission reductions by setting sector-specific targets and engaging in climate-focused decision-making.*</i>											
	Establish emission reduction targets for each 1) sector of the economy or 2) emissions source type, depending on individual GHG inventory.											
	Maintain trend in the increase of mode share for bike, walk and transit trips through incentives and improved infrastructure, and advance policies to discourage single occupancy use of automobiles powered by fossil fuels.									DOT/DMV/DC Council/Mayor - Transportation mode share, % no/low emission vehicles in DC		
	Expand Green Building Act of 2006 to smaller development and redevelopment (residential as well as commercial), and establish higher performance thresholds for all development. Require new buildings and substantial renovations over X sq. ft. to be carbon neutral.									Requires legislation; DCRA		

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	Provide incentives, financing mechanisms, or subsidies for retrofitting older, inefficient residential and commercial buildings to improve energy efficiency.									Indicator: Number of buildings and square footage retrofitted; energy use saved		
	Implement sector-specific recycling goals to advance carbon reduction.									DPW (enforcement); DDOE (policy) – Percentage recycling by sector		
	Establish a carbon benefit program to fund climate mitigation and adaptation programs.											
	Increase the District's acreage for urban agriculture (without decreasing the acreage of forest or parks) and establish local food production targets in order to reduce emissions associated with transporting food.											
	Encourage climate-focused decision-making by providing incentives to businesses that hire graduates of DC Green Jobs training programs.									Indicator: Number or % of Green Jobs training graduates hired		
	Optimize a Sustainable DC through vibrant urban design with transit-oriented, bike/pedestrian-friendly, compact, mixed use development and foster livability and community through a world-class education system, crime prevention programs, arts and culture, diversified housing choices, reducing poverty, etc.											
3	<i>The District will implement a means for accountability and oversight to measure performance and progress toward meeting CO2e reduction goals by the end of 2012.</i>											
	District Government adopts Climate Action Plan (CAP) goals.									DDOE/Mayor/D C Council – Action successful or not		

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4	<i>Prioritize climate data transparency and accessibility in order to empower citizens, organizations, businesses, government agencies, and communities to make informed decisions.</i>											
	Require annual reporting and public disclosure on GHG emissions data for scopes 1, 2, and 3 for all private organizations and businesses occupying more than 25,000 square feet.									DDOE, DCRA, legislation? – Reports & disclosures		
	Provide a tax incentive to manufacturers and retailers for making available “climate nutrition facts” that disclose GHG emissions information for products and foods sold in the District.									Requires legislation		
	Create a GHG emissions footprint calculator tailored to local conditions in order to increase residents' awareness of the climate-related effects of their lifestyle choices and thereby enable them to make more informed decisions.									DDOE		
	Provide an online portal for organizations, businesses, and communities to upload, organize, and view GHG emissions data for scopes 1, 2, and 3.									DDOE		
	Implement a city-wide campaign to publicize the efforts to make DC the most sustainable city in the country and to reduce CO2e emissions, and to inform the public of its role.									DDOE/DCPS/D CRA/Mayor/City Administrator - Action Implemented or not		
5	<i>Ensure all District residents have access to climate education (in mitigation, adaptation, and climate science) and that all public and charter school students in the District demonstrate climate competency before graduating primary school.</i>											
	Include local and global climate education and experiential learning opportunities for DC public and charter school students.									DCPS, environmental educators, nonprofits		
	Provide ongoing professional development for DC public and charter school teachers to support the integration of climate education into curriculum.									DCPS, environmental educators, nonprofits		
	Ensure that the DC Environmental Literacy Plan, developed pursuant to the DC Healthy Schools Act, includes provisions to address climate education.									DCPS, environmental educators, nonprofits		
	Give businesses incentives to include environmental education in job training and orientations to help ensure a climate competent public.									BIDs, Commerce?		

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9	Incentivize investment in "campus" microgrids, distributed generation, and r&d, and create dedicated funding source for pilot programs. Take into consideration recommendations of the study on the potential for co-generation and district energy in the DC area that was conducted by Washington Region Council of Governments in 2011.											
10	By 2015, pass legislation (sometimes called "Energy Conservation Ordinances") that requires energy audits and disclosure for all buildings at point of sale.								Built Environment			
11	Use public space for renewable power generation where appropriate								Built Environment, Transpo G.E., Nature			
12	Ensure that there is utility incentive for efficiency and decouple rates for Washington Gas											
13	By 2015, do a baseline feasibility study of individual and multiple buildings, public and private (zone heating) system of ground source heat pump potential.								Built Environment	SEU, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing
14	By 2015, expand the capacity of the DC Sustainable Energy Utility to provide financing by creating a legal framework that gives the SEU access to bonding authority and makes possible public-private financing such as power purchase agreements with low-cost capital and agreements with energy service companies for energy efficiency investments with performance guarantees.									DDOE, City Council, Amer. Nursing Assoc., Amer. Cancer Assoc., Sierra Club, other enviro and health NGOs	60% from benchmark, Benchmark should set a percent of yearly objectives	Legislation, Advocacy
15	By 2015, explore, study and support the feasibility of a regional carbon tax initiative.								Climate, Built Environment G.E., Waste	HUB DC, Affinity Lab, Peoples Council, DPR	One hub per Ward, open 10-12 hours per day	Funding, Marketing, Staff for implementation, Communications
16	By 2017, 100% of all K-12 students (both DCPS and charters) receive energy education, as part of science/math courses K-8, and then as a stand alone offering in grades 9-12. All schools should select an energy/sustainability department head and create green committees of students and faculty by 2017 as well.								Climate	DOES, VC Cos., DSLBD, DMPED, Univ. & High/Trade Schools, SEU, DDOE	Established Structure, # of companies in DC, Comp, adding growth, # of jobs created	Funding, Legislation for tax incentives, Public/Private Partnership
17	By 2015--10%--and by 2030--100%--of low-income housing will receive the most appropriate energy upgrades through available financing options. District should immediately begin to retrofit low-income housing where city pays the utility bills, and research financing options where tenants covers bills.									City Council, DDOE	% of renewables gener., Technology type, by use and by production	Policy, Legislation, Add'l funding for DDOE/SEU for support staff & marketing

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18	Prioritize implementing/feasibility of cogeneration opportunities and technologies									SEU, DDOE, DC Water, Property Holders	Measurable Reductions # of Participants	Funding for community engagement
19	Convert all DC pools to solar thermal									PSC, Pepco, DDOE, City Council	Pilot Implemented	Approval
20	Expand PACE beyond large commercial, deploy \$2 billion of private capital financing for energy efficiency and renewable energy retrofits									DDOE, CFO, City Council, DOE, Financial Markets	# of projects & types \$ of projects	SEU contract parameters Financial Market Support
21	By 2014, ensure that a waste-to-energy study to analyze best technology and viability in the District is completed								Waste	DDOE, DMPED, OP, Utilities, Universities, Hospitals, DOE	Completed Draft Plan Incentives Created	Zoning changes, Explore PUD options, legislation changes, interconnection changes
22	By 2013, build an overlay/GIS map to identify high and low energy use in the city								Built Environment	City Council, DDOE, DCRA, DCBIA	Legislation Enacted	Legislation Drafted
23	By 2013, create accurate baseline data for residential and commercial properties									DDOT, DCPS, DPR, DC Water, DGS	Define public space Annual potential Tally of installs Survey of military sites	Funding, Legislation, Policy for Reporting
24	Mandate analysis of renewables on new construction and implement economically feasible measures								Built Environment			
25	By 2017, 100% participation in Smart Meter Usage in 5 years (not just deployment but consumer awareness and participation									DDOT, SEU/DDOE, DOE, BIDs, AOBA, DOT/DOE (funding) DGS, GSA Large Property Owners	Funding Identified RFP, Reporting and Recommendation	Funding
Food												
1	GOAL: Focused food distribution support to those who are food insecure, such as seniors, and disabled, that have difficulty in obtaining their own fresh healthy food.	H	L	H	H	M	M	S		DCRA; AARP; Council on Aging; Nonprofits - food justice	See #1 and track # of access points for (healthy?) food; track # of mobile market trucks; Survey Office of Aging about access	modest funding; nonprofit collaboration; volunteer participation; ANC collaboration; CSA expansion

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2	ACTION: Modify the regulations and permit approval process in the District, as regards to agricultural land use and activities, in order to promote local production of food.									OP; DCRA; DDOE;	Clear chicken and bee regulations	policy
3	ACTION: Streamline process to find and use land; use database system such as space finder by Cultural Development Corporation; collaborate with DC government agencies and residents for available land, rooftops, etc. [ALT ACTION: Expand the supply of land for urban agricultural activities by providing incentives for property owners (including agencies and non-profits) who make space (including rooftops) available to growers, and by facilitating the search by growers for available space.]	H	M	H	M	M	M	S	Built Environment	OP; ANCs; DGS; DPR	Functional, comprehensive database that is updated regularly	funding; program creating/database upkeep; community land survey
4	ACTION: Create DC Office of Sustainability to assist in streamlining programs	L	M	L/M	L/M	H	M			Mayor's Office; DDOE	It exists, 1 Jan 2013	policy change/ government office creation
5	ACTION: Change the policy to allow beekeeping, livestock and poultry in DC, including mobile beehives and mobile hen houses. (May fall under umbrella of Item 2 - modify regulations)	L	M	L	L					OP, ANCs; USDA (if selling)	People can have chickens and bees by _____	legislation to clearly allow beekeeping, chickens, etc.
6	ACTION: Develop a citywide system of composting that increases the amount of usable soil and reduces landfilled waste.	H	H	H	L	H	H	S	Waste	DPW; DOH; Private Sector entrepreneurs (Haulers)	By _____, _____% of institutions', grocers', homes' waste being composted	funding; policy change
7	ACTION: Provide incentives to encourage the growing of healthy local food, especially to be grown or sold in local supermarkets (needs more detail - tax credits on income from sales, pay people to farm, free tools land water fertilizer and seed,)	L	H	M	H	L	M	S	Green Economy	City Council or Budget or Grant office; Restaurants	20% of all institutional food sourced within 150 miles by 2015 (use Healthy Schools Act as a model?)	funding; legislation
8	GOAL: Expand education and community knowledge and grow a food culture by targeting different audiences and age groups.	L	L	H	H	M	H	S	Nature	DC Farm to School; Slow Food DC; CAFB; DCCK	Community Surveys of farmers' markets - is there more access and are people taking advantage, and community gardens	community
9	ACTION: Support local food business by providing resources and regulatory assistance to ease the start up and management process of developing a local food business, potentially via an incubator.	H	M	L	M				Green Economy	DSLBD; Community Development Corporations (ex. LEDC, Think Local First)	Number of applications, loans, business licenses	legislation; regulations
10	ACTION: Celebrate local DC food culture through a series of events, temporary installations, community outreach, and pilot models of urban agriculture around the city that build on DC's unique assets.	L	L	L	H	L	H	S		DC Farm to School; Slow Food DC; CAFB; DCCK	Number of food festival permits, public space permits	funding; community
11	GOAL: Establishing plans to ensure longevity of urban agriculture campaign (?what does this mean?)	H	H	H	H	M	H	S		Office of Sustainability!; Food Policy Council		

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12	ACTION: Establish a permanent Food Policy Council to guide the development of a sustainable food system for the city, and to serve as a resource hub for stakeholders.	M	M	H	M	M	M		Nature, Waste	DMPED; DC Restaurant Association; Farmers Markets; DCPS School lunch; Kaiser Foundation Funding; DCCK; CAFB (all are part of BFC/HAFA group); Ag Extension; Bread for the City (HAFA); MoCo FP Council; City council (?)	Food Policy Council exists and persists after Kaiser Foundation grant. Has a structure and visibility and system for impacting local policy.	funding; partnership/delegate
13	ACTION: Use education to influence purchasing decisions by institutions. Incentivize government and institutional local food purchasing (?what incentives? subsidies? awards and medals?)	H	L	H	L					DCPS	Audit local institutions, e.g.. hospitals, city government agencies for 5% in 2 years, 10% in 5 years, 20% in 10 years	incentive/legislation
14	ACTION: Expand community gardens, spreading them to all part of the city but especially areas with excess demand, low income, or other needs for fresh local foods	M	H	H	H	H	H	S		Wells/City Council; DGS; DPR; Nonprofits	Survey participants in community gardens to measure change in food security; _____% increase in gardens per Ward by 2015	legislation; community
15	ACTION: Develop education efforts for food production, cooking, culinary prep skills for community audiences and more advanced learning for job training, such as Civilian Conservation Corps.	H			H	H	H	M		DC Central Kitchen; DCPS; Bread for the City; DOH; Health Expos; GW/UDC and other universities with culinary programs; Vocational high schools; Local Restaurant Association		community, coordinate business (nonprofit) initiatives (e.g.. Whole Foods Healthy Eating classes)
16	ACTION: Land trust and land bank to protect gardens and farms long-term through license agreements (this could fall under 3 - expand supply of land)	H	H	M	M	H	M	M		DCRA; OP; Private landowners; Land Trust Organization	Existing gardens: 100% protected; Future gardens/farms: 20% of useable vacant land	legislation

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17	GOAL: Dramatically expand local food production but getting 20 additional acres of land under cultivation by 2020, and produce 25% of DC food locally (50-100 miles) by 2025.	H	H	H	H	H	M	L	Built Environment, Waste,	DCRA; OP; DHCD; ANCs	DCRA map of agricultural land; Survey gardens, farmers, grocery stores, restaurants, and institutional purchases	legislation, UDC + funding for commercial ag, master gardener training
18	ACTION: Develop and implement a communications and marketing plan for food systems issues that communicates with key stakeholders, informs the community and builds support for urban agriculture. Examples of tools include DC Food Finder and DC Market Maker.	H	H	H	H	H	H	M		Farmers' markets; DPR; Office of Sustainability (ideally this hypothetical 'office' would run a centralized branding and communications effort); DDOE; OP; WMATA; UDC (Market Maker); DC Hunger Solutions		funding; partnership/coordination
19	ACTION: Increase orchards and permaculture through strategic planning with Department of Parks and Recreation, Washington Parks and People, Casey Trees to further the planting of fruit/ nut trees and other shrubs	M	H	H	H	H	M	S		Casey Trees; DPR; Neighborhood Tree Groups; DDOT; OP	# orchards, fruit/nut trees; % of land used; amount of food harvested and distributed	legislation; foraging groups
20	ACTION: Greater food transparency through display of caloric and nutritional content at fast food/restaurants and/or production source and retail markets	L	L	H						DOH/Inspection Authority; Cheh on Council; Office on Aging	Analyze retail purchase data to measure food purchasing behavior	legislation/voluntary participation; participant buy-in; consumer education; inspection; may need to be a DC Council action
21	ACTION: Enhance Food Security / Access for Food insecure members of the population by expand "Double Dollars" program citywide (i.e. WIC and SNAP) for farmer's markets citywide [ACTION: Expand use of food assistance program funds for the purchase of fresh produce (at farmer's markets, urban commercial growers, community garden sales, etc.)]	H	H	H	H	M	M	M		DOH; Farmers Markets; Food Justice Nonprofits; USDA	Health indicators - diabetes, heart disease, obesity; USDA - Food Security Survey, SNAP/WIC participation; Food Desert Maps; Double Dollar purchases - participation rates; Local gardening/ag impact on households	Legislative; funding
22	ACTION: Tool share program	M	M	L	H	M	H	S		DPR; nonprofits; civic groups; USDA Extension Office	# of tools; # of projects using tools; types of tools needed/used	Greater DC CARES (expansion)

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23	GOAL: Build on Healthy Schools Act (this could use some more detail)	L	M	H	H					DCPS; Nonprofit partnerships (e.g. Brain food); Local farms	Track nutritional quality of menus; Track # of school gardens and quality of produce grown/eaten; Review effectiveness of curriculum in educating students; Determine local/regional content in school meals	DCPS contracting requirements (procurement rules)
24	Create a local food hub that can aid in serving as a regional aggregator, production and distribution facility for local farms.											General Question: Consider what type of funding is most appropriate - Public, Venture Capital, DC Public Bank, Foundation, Social Venture Funds, Sustainable Capital, Revolving Loan Funds
Green Economy												
2	DC Council to legislate the creation of an independent DC Public Benefit Bank that will spur the green economy and fund socially beneficial projects (by financing itself through interest on DC government deposits and the sale of bonds)	H	M	M	H	H	H	SM		CFO, Council, DISB	Establish the bank by 2014 so that the bank can open it's doors (officially launch) by 2015. By 2016, the bank should be initiating partnership loans to meet sustainable DC goals and objectives.	Capitalization by selling bonds, policy and law
3	Inspire children to aspire to green careers early in their lives by having DCPS, UDC and CCDC create education/training pipelines from elementary school all the way up to college geared to specific green industries/employers at different skill levels. These education and training programs should respond directly to green jobs gaps and to the priorities set other Working Groups and should be fun and inspirational and include competitions.	H	H	H	H	H	H	ALL		DCPS, charters, unions, DOES, UDC, CCDC, non-profits	By 2014, the Board of Ed should pass environmental literacy curriculum for all DCPS schools to deliver by 2016. By 2015, UDC and CCDC should integrate green curriculum in all appropriate courses.	policy, law
5	DMPED and Universities to use other cities' best practices models (e.g. the Cleveland cooperative model) to create revolving loan funds and other financing mechanisms that provides start-up and working capital to local cooperatively owned businesses, generates new capital, and invests in new business coops as opportunities arise	H	H	M	H	M	H	S		DC consortium of univ., DC hospital assoc. non-profits, WRAG, WIC, DCPS, CDFI, DSLBD	Council and Mayor should facilitate the establishment of an entity that would distribute funds to local coops by 2014	zoning, Mayoral priority
4	Council to pass legislation to allow the incorporation of Benefit Corporations [and district government promotes and incentives businesses to register/switch to B-corporations]	H	H	H	H	H	H	S			Council should pass legislation by 2013 establishing B-corps in DC. District gov't should promote them heavily so that by 2030, 51% of corporations in DC would be B-Corps.	
1	Require DC government to purchase at least 50% of all its qualifying products and services from environmentally [and socially] preferable sources with a preference for local businesses (utilize pilot programs, create partnerships and highlight green businesses) by [2016]	H	H	L	H	M	H	S		City Admin. DDOE, OCP, DSLBD	By 2014, District government establishes a process so that 50% green purchasing can be achieved by 2016	Policy, Funding (more staff)

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7	District Government, Council and non-profits to identify and address externalities and market failures and send accurate price signals through new programs, legislation, taxes and incentives that promote a green and clean economy while taxing pollution with bottle bills (10 cent deposit on recyclables), regional and DC downtown/business district congestion pricing, Clean air compliance fee, [pay as you throw] policy, carbon tax, transforming property tax into a value-capture user fee (encourage green development and discourage speculative holding).	H	H	H	H	M	H	ALL		Just Economics LLC, fiscal policy institute, dc council, OCFO	Council should pass "pay as you throw" by 2013 (implement by 2015), Carbon Tax by 2014 (implemented by 2016), Clean Air compliance fee by 2015 (implemented by 2017), and bottle bill by 2016 (implemented by 2018)	
11	Create a local social impact investment market [also known as dedicated investment fund]	H	M	M	H	MH	MH	S		Calvert Investment, CFO, Council	Created by 2015	
8	Encourage and foster a strong competitive and entrepreneurial environment by creating a network of green business incubators throughout the city leveraging university campuses and public facilities that will unite like-minded business for information sharing, creation of partnerships and synergies. Green business incubators initiative should start with UDC and the new CCDC	H	M	L	H	M	H	M		universities and business schools, DC Consortium of univ. venture capitalists, affinity lab and DC chamber of commerce	District gov't establishes incubator to offer affordable office space and business support to 10 businesses by 2014, 50 businesses by 2016, and 200 businesses by 2018.	funding
6	75% of food [sold and purchased] by DC residents [government institutions, businesses such as grocery stores and restaurants] and tourists is [certified as] eco-friendly[. Eg:] biodynamic, organic, local, sustainably harvested etc.	M	H	H	M	M	M	M		dc community gardens and farmers markets, dc restaurants, grocery suppliers, slow food	75% of food sold/purchased by public institutions in DC should be eco-friendly (according to District green foods standards) by 2020. 75% of food sold/purchased by businesses and residents in DC should be eco-friendly by 2030.	
13	75% of DC residents and tourists/visitors have walkable access and use to basic services (i.e. full grocery stores, pharmacies, schools, transit, rec and parks) in their neighborhoods	H	M	M	H	H	M	M		WMATA, DC gov, OP, Developpers, DMPED, retail	Achieve by 2025	
39	Create a city-wide participatory budgeting process to prioritize city expenditures and investments across neighborhoods									Mayor and City Council	Achieve by 2016	
15	Transform property tax into a value-capture user fee: encourage development and discourage speculative holding (lower tax rate on building value and higher tax rate on land values)	H	H	M	H	M	H	M		just economics, OTR and OCFO	Achieve by 2018	funding
17	Grow CAPCO financing program and like programs that give capital funds and seed funds to green entrepreneurs	H	M	L	H	M	H	M			Double the funds in this program by 2015.	

[illegible]

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1	<p>[ENVIRONMENTAL LITERACY/EDUCATION] The DC education system (pre K to university level, including public, private, and charter institutions) will incorporate environmental and sustainability education/literacy into the existing curriculum with a focus on community and outdoor components (i.e. schoolyard and backyard habitat workshops and certifications). Fully fund DC's Environmental Literacy Plan (ELP) and Healthy Schools Act. Include native plant production in new high school greenhouses in the ELP.</p> <p>When: after pilot phase, full implementation by 2016</p> <p>Who: DCPS, DDOE, DDOT, DPR, DGS, local non-profits</p> <p>Target: pre K through university level students</p>								All	DCPS, charter and private schools, all universities, education-focused non-profits (especially DCEEC); DDOE and DCPS for ELP; DC Council for Healthy Schools Act, City Council, DDOT, DPR, DGS	Education reform, U.S. Department of Education/OSSE for funding? Local allocated funds	Benchmark: By 2015, 100% of DC schools (public/charter/private) have schoolyard habitat workshops and certifications. By 2015, all universities in DC have incorporated sustainability principles (and training, where applicable) into existing curriculum. ELP is implemented and monitored; DDOE and DCPS held accountable for carrying out ELP; DC Council enforces Health Schools Act (?)
2	<p>[INCREASING PERMEABLE SURFACES]</p> <ul style="list-style-type: none"> For all new construction (residential and non-residential): through the building permit process, all builders/construction projects in DC will adhere to the goal of increasing and maintaining permeable surfaces by 10% by 2020 and by 20% by 2030 (need to be ambitious goals). For all existing construction (residential and non-residential): expand and maintain permeable surfaces in the existing built environment through a District-wide depave campaign (immediately identify opportunities for removing pavement by neighborhood). 								Water, Built Environment	DGS (for District-owned projects), DCRA, OP, DDOE, DDOT, developers, property owners, BIDs	New zoning regulations; Projects review change; new regulations; local allocated funds for existing construction and public space de-paving and maintenance	Benchmark: By 2020, 10% increase in permeable area of new construction projects; by 2030, a 20% increase. For existing construction, the percent increase in permeable surfaces is an indicator. For both, a stewardship or maintenance program established.
3	<p>[TREE CANOPY] Have DDOT increase the District's tree canopy to 40% using at least 250,000 appropriate native trees and protect and maintain existing trees through engagement of landowners including government departments, businesses and residents, by 2035 for the purpose of improving the health, enjoyment and well-being of the District's residents.</p>								Water, Built Environment	DDOT (UFA), Casey Trees, DDOE	Tax incentives or refunds for planting trees, neighborhood fund drives	Count of trees planted per year with the goal of "x" # of trees planted per year on the goal of 40% canopy; annual tree coverage report by Casey Trees

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4	[TERRESTRIAL HABITAT] Conserve, restore, and increase DC's terrestrial wildlife habitat by having DDOE, NPS, DPR, and DGS follow the DC Wildlife Action Plan to: 1) restore forest understory by replacing invasive plants with native plants and controlling the geese and deer population by 2023 (needs to be ambitious target); 2) increase grassland health by converting 80% of mowed space and 10% of rooftops to native wildflower meadow habitat (need to be ambitious targets); and 3) increase connectivity between habitats for the benefit of DC's wildlife and safe and responsible enjoyment of its human population. Conduct species vulnerability assessment. Inform decision making with climate impact information. Create management plans.								Water, Built Environment	DDOE, NPS, DPR, DGS, Possibly OP and GIS offices for 3)	Cross-agencies agreement; plan for enforcement; sufficient staff to handle; new mapping	Number of Rare, Threatened and Endangered Species in the District. Number of nonmigratory geese and deer. Wildflower coverage.
5	[AQUATIC HABITAT] Conserve, restore, and increase DC's aquatic wildlife habitat by having DDOE, DPR NPS and USGS follow the DC Wildlife Action Plan to: 1) remove all invasive plant and animal species (including geese by implementing a Goose Management Plan) from wetlands by 2023; 2) restore current wetlands (mudflats, underwater grass beds, and vernal pools/ephemeral wetlands) by 2017; 3) restore DC's natural stream channels as appropriate/feasible; and 4) ensure no net loss of wetland areas and expand current wetland areas where possible.								Water, Built Environment	DDOE, DPR, NPS and USGS	Develop an annual implementing plan for the DC Wildlife Action Plan by DDOE and NPS. Funding for invasive plant and animal species. Funding for stream channel restoration. Funding for wetland restoration and expansion by USGS.	Number of nonmigratory geese. Wetland areas in acres. Percent of stream channels restored.
6	[RFK] Revitalize RFK Stadium parking lots into safe, enjoyable, and usable green space When: 2017 Who: federal government (NPS, NCPC)								Water, Built Environment	NPS, NCPC	Developing a plan for RFK Stadium. Funding for the plan.	Completed green space projects
7	[SAFE ACCESS TO PARKS] Promote safe and responsible connectivity between people and nature - Increase access to parks: signage, trails - Increase and maintain safe and enjoyable park space - Promote safe access - Increase the proximity of parks to all residents within a 10-minute walk - Decrease "park deserts" - Mapping of parks - Promote safe and responsible park use and stewardship (i.e. stay on marked trails, pick up your trash, don't feed the animals, etc.) When: 2017 Who: NPS, DPR, Office of Planning, DDOT, Washington Parks and People, Rock Creek Conservancy								Transportation, Built Environment	NPS, DPR, OP, DDOT, Washington Parks and People, DC GIS, Rock Creek Conservancy	City-wide summit, new access plan, champion to lead cross-sector collaboration; physical design changes to intersections and roadways; construction of new parks in park deserts; Safe Routes to Parks program (based on Safe Routes to Schools)	Benchmark: 100% of residents within a 10-minute walk to a park (1/2 mile) by way of a safe route.

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8	[WILDLIFE CONNECTIVITY] Enhance and restore wildlife corridors. Locate which of the open existing spaces must be reserved for corridors to provide species movement pathways for migration and for species to seek refuge, move to cooler locations, etc. Create wildlife connectivity map to establish a baseline and then update at regular intervals as activities to increase connectivity are implemented.								Water, Built Environment	Per Terrestrial Habitat, Non-profits such as City Wildlife, NWF, National Geographic, DDOE Ecologists	Designate initiative lead at DDOE/OP/non-profit partner; fund and staff	
9	[INCREASING GREEN SPACE] Require developers to fund or provide for green space by Green Area Ratio (GAR) and natural space set-asides in new developments that would help create or maintain wildlife habitat and corridors When: 2015 Who: Office of Planning/Zoning/DCRA								Built Environment	OP, DDOE, DC GIS, DCRA	Zoning regulations, Comprehensive Plan policy	Number of completed new operational projects, with documented evidence of new green habitat and natural green space. Benchmark every 3 years.
10	[SPECIES/BIODIVERSITY] No net (further) loss of species and biodiversity. Increase native populations of fish, birds, and other wildlife. When: 2015 Wildlife Action Plan Review Who: DDOE, NPS, NGOs, ANCs								Water	DDOE, NPS, NGOs, ANCs		
11	[COMMUNITY HABITAT CERTIFICATION] DC obtains community habitat certification]									National Wildlife Foundation		
12	[POLICY/LEGAL] Promote an integration of policy and legal activities to value the protection of nature									DDOE, Office of Planning/Zoning , City Council	Legislative directive from City Council; Mayor's Order; impact analysis	
13	[URBAN GARDENS/NATIVE PLANTS] Support urban gardening - Convert abandoned/vacant lots into urban agriculture and gardens - Establish native plant nurseries at DCPS high school greenhouses When: 2017 Who: NPS, DPR, neighborhood/partner groups								Food	NPS, DPR, DCPS, Charter Schools, UDC, DCRA, DHCD, Dep Mayor for Economic Development, Non-Profit partners; private land owners with fallow vacant land; DCBIA	Identify District lead for urban gardening and grant authority; fund; staff. Access supporting funding from foundations?	

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14	[AWARENESS] Execute awareness campaign <ul style="list-style-type: none">- PSA's- Volunteerism- PR about what DC is doing and existing regulations- Promote positive aspects of outdoor recreation and safe park use Safe us of parks (signage, rules, etc.) Safety of parks (maintenance, patrols, etc.)								All	Cross-agency Office of Sustainability; DDOE		
15	[LIGHTS OUT] Implement “Lights Out” program								Energy?	DDOE, DGS, DCBIA and building owners association; GSA and other federal agencies; Private building owners; City Wildlife, Media	Awareness campaign, facilities manager behavior change, lights watch volunteers. Possibly changes in city ordinances.	Number of federal and private buildings that have implemented a "Lights Out" program
16	[NATURAL SURVEYS] Engage residents in natural surveying activities, such as BioBlitz and bird counts, to (1) increase community ownership of DC's natural resources, and (2) gather trackable data about DC's wildlife health.								Water			
17	[ZONING] Establish zoning designations for the protection of natural areas and wildlife habitat.								Water, Built Environment	Office of Planning/Zoning , DDOE	identify agency lead, working group. Examine practices of other cities.	Amended zoning map and regulations

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18	<p>[GREEN SPACE MAINTENANCE] Ensure that the District's greenspaces and green infrastructure is managed and maintained in a sustainable manner by creating a structured and sustainable educated workforce to maximize effectiveness and protection.</p> <p>1. By 2014, every government agency that has responsibility for public greenspace areas will have a dedicated department and/or one dedicated city employee to oversee greenspace/infrastructure management.</p> <p>2. By 2013, a “Green 311” call line/website will be implemented for reporting greenspace public safety concerns. Confirmation/call back will be assured for each reported incident.</p> <p>3. By 2013, an updated and current maintenance schedule for parks and public greenspaces will be accessible to the public.</p> <p>4. By 2013, green infrastructure on government/federal property will have an updated and current maintenance schedule/scheduled maintenance plan.</p> <p>5. By 2014, government agencies will be encouraged to partner with non-profits, CSOSA, volunteer organizations, CSO's, DCPS and college community service groups to help with greenspace maintenance.</p> <p>6. By 2016, job training programs/college/high school curriculum will be required to educate and provide certification for green infrastructure maintenance and related green job skills.</p> <p>7. ANC offices should become conduits for reporting maintenance issues.</p> <p>Actors: DGS, DPR, DPW, DDOE, DDOT, DCPS, CSOSA, NPS, AWS, ECC, SCC, Anacostia River Keeper, Groundwork Anacostia</p>								Green Economy	<p>City Council, Deputy Mayor's offices, DDOE, DCRA, OP, DPR, DGS, Finance Office, DPW, DDOT, DCPS, CSOSA, NPS, AWS, ECC, SCC, Anacostia River Keeper, Groundwork Anacostia USA, Washington Parks and People, Casey Trees, ANC's, BIDs, etc.</p>	City Council legislation, Mayor's Order; assessment of maintenance issues, maintenance plan(s); staffing to implement	
19	<p>[PROTECT MATURE TREES] Identify the city's most valuable and vulnerable mature trees and develop protection and maintenance plan, and implement.</p>									Casey Trees, DDOT, DDOE, NPS	Create parallel protection and restoration program to Riversmart, but with emphasis on stabilization and protection of trees in danger zones. Include street trees, privately held trees, local and federal parklands. Align with terrestrial habitat agenda (trees are ecosystems). Funding. Expert and citizen surveys, professional and citizen forester volunteers; Green Summer Job participants	
20	<p>[FEDERAL-DC PARTNERSHIPS] Working off the CapitalSpace partnership initiative, DC Government builds a working relationship with the federal government to move forward on projects such as the RFK revitalization and Oxon Run Park improvements.</p>									DDOE, NCPC, NPS	Political commitment by NCPS, DDOE, DPR, NPS to CapitalSpace initiative.	Functioning CapitalSpace program. Progress on RFK revitalization on Oxon Run Park improvements.
21	<p>[INVASIVE WILDLIFE] Control invasive plants, geese, deer, and fish through improved management. Who: DC Fisheries and Wildlife, NPS, community volunteers, non-profits</p>								Water	DDOE, NPS, Humane Society, City Wildlife		

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22	[SUSTAINABILITY FOCUS] Increase the focus on sustainability in both local DC communities and the DC Government - Create a “Sustainability Secretary” position in all ANC Single Member Districts; promote with neighborhood associations - Appoint “Sustainability Councilor” (Office of the City Administrator)								All	City Council and individual ANCs	Use the Sustainability Secretary in ANC SMDs to promote and provide greater access to city "green" initiatives and programs as well as take suggestions/ideas from individual ANCs to the city-wide "Sustainability Councilor" for presentation to the City Council, DDOE, Planning, etc.	Within 3 months of the new ANC session, each SMD must have 1 Sustainability Secretary. All of the Sustainability Secretaries would have to meet at least once a quarter to discuss sustainability issues in their SMDs. From this group, one Sustainability Secretary would be elected to represent the Ward and report to the Sustainability Councilor in the Office of the City Administrator.
23	[STEWARDSHIP] Engage youth and community members as stewards of their local parks and natural spaces through education, volunteerism, and employment, especially in low-income and underserved communities.									DC Area Faith Ecology Group and area churches/synagogues/mosques		Five actions taken annually by a coalition of these institutions in direct support of the DC Sustainable DC NATURE working group
24	[OXON RUN PARK] Examine the feasibility of transforming the Oxon Run Park into a world-class park.									DPR, NPS	Developing feasibility study.	Feasibility study by NPS and DPR completed.
25	[WILDLIFE REHAB CENTER] Establish a wildlife rehab center in DC.									City Wildlife, Humane Society, DDOE, DOH, Nonprofit and Foundation partners	Ensure current facility in development is financially supported. Assign professional vets and volunteers. promote local rehab program	
Transportation												
	GOAL: Decrease reliance on cars										-- increase in number of transit riders -- decrease in number of trips made by car -- decrease in VMT -- changes in mode share	
1	Eliminate free commuter parking (either as employee benefits or otherwise)	H	H	H	H	H	H	M	Green Economy	DC Council, DCRA, Office of Tax and Revenue	Reduced SOV mode share. Reduced VMT. Reduced lane-miles of congestion	Regulation, change in tax code
2	Internalize the cost of parking through the creation of performance parking districts and dedicated revenues to transit	M	L	L	M	L	H	S	Green Economy	DC Council, DDOT		Legislation

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3	Institute a commuter/congestion charge for automobiles that is mileage based	H	H	H	H	H	H	M	Green Economy	DDOT, Regional Transportation Partners (COG/TPB, MDOT, VDOT) DC Council		Legislation, transponders in cars (there are ways to overcome the big privacy issue)
4	Encourage businesses to provide cycling incentives, including local tax credits for the construction of showers and locker facilities or the implementation of the federal transportation credits for biking								Green Economy	DC Council, OTR, DGS		Legislation, partnership with DGS for DC-owned buildings
	GOAL: Incorporate transit in strategic economic development planning										-- Increase in number of transit riders -- increase in number of jobs near transit -- X% of households and Y% of jobs within XX miles of transit -- decrease in number of vacant/abandoned lots/buildings -- increase in square feet of office space near Metro -- increase in transit-oriented development (Note: keep indicators towards people) -- Increase in density as measured by % of zoning envelope that is developed.	
5	Transform the property tax into a value capture user fee by reducing the tax rate on buildings and increasing the tax rate on land values	H	H	H	H	H	H	M	Green Economy	OCFO, Office of Tax and Revenue, DC Council, OP		Legislation
6	Coordinate land use with transit through zoning modifications (increased density/flexibility, reductions in parking requirements, creation of TDR zones, increased allowable heights) to maximize the economic development outcomes of transit investments	H	H	H	H	M	H		Built Environment	OP, NCPC, GSA		Regulation
7	Increase funding for transit through enhanced revenues, such as advertising and marketing revenues, and secure funding streams for all modes of transportation	L	L	L	L	L	L			WMATA, DDOT		Administrative
	GOAL: Decrease pollution and greenhouse gas emissions										-- Decrease in number of days air pollution is above XX threshold -- Decrease in VMT/GHG Emissions in absolute terms and in rates -- Improved air quality conformity outlook	
8	Decrease the use of fossil fuels and make all XX% of DC's municipal fleet and transit vehicles use alternative fuels; use municipal model to encourage commercial and freight fleets to adopt similar policies	H	M	L	H	M	M	M	Green Economy, Energy	DPW, EOM, DC Council, WMATA, DDOT		Executive Order, enforce existing policies, legislation

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9	XX% taxicabs are non-polluting vehicles (or low-emission)									DC Council, DC Taxicab Commission		Legislation
	GOAL: Improve system efficiency for all users										-- Increase in number of transit riders -- Improved user data -- decrease in travel time (transit/bicycles/cars) - were able to measure this with WABA volunteers -- increase in travel time predictability/consistency -- Decrease in total estimated household transportation cost -- Decreased fuel use relative to tons of freight movement	
10	Better bicycling/pedestrian connectivity and coordination through a connected, citywide bike network									DDOT		Funding, community buy-in
11	Dedicated bus and streetcar lanes with strict enforcement	M	M	H	H	H	H	M	Green Economy	DDOT, MPD, DPW, WMATA		Funding
12	Improve management of freight operations, including shifting delivery times, routing, loading zone design and enforcement of their use.	H	M	L	L	L	H	M		DDOT		Funding, policy, incentives, regulatory changes to improve freight managements
13	Include bike and pedestrian use in all transportation planning through data collection on bike/pedestrian and facilities that support bike and pedestrian needs									DDOT		Administrative, funding
14	Establish a balanced and coordinated governance system for all transit options in the region and create a single point/method of payment for Metrorail, Metrobus, Circulator, Streetcar, and CaBi	M	M	M	M	L	M	S	Green Economy	DC Council, WMATA, Regional transit partners (DDOT, MDOT, VDOT, TPB)		Legislation, administrative action, policy and technical parts
15	Work with tour bus companies to create transit plans for tour groups (drop visitors off at stations outside of DC then tour DC using public transport options)	M	M	M	M	L	M		Built Environment	DDOT, MPD, DPW, DDOE		Community support - working with stakeholders in the business districts and with the American Bus Association
16	Efficient equitable allocation of road space									DDOT, DMPED, OP		Policy
17	Increase employer support for transit with flexible work schedules, telecommuting (especially with federal agencies), and increased transit benefits									DCHR, OPM (sets telecommuting policy for federal agencies), NCPD		Policy
18	Design streets and sidewalks to be safe and comfortable for bicycling and pedestrian uses									DDOT, NPS		Administrative

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19	Include space or consideration of bicycle and pedestrian facilities, including adequate unobstructed space for reasonable use, bike parking and minimization of curb cuts								Built Environment	DDOT, NPS, Public Service Commission (DC organization)		Administrative, Funding
20	Ensure District agencies (including OP, DDOE, DPW, DCPS, DMPED, DGS, DHCD, DOH) incorporate bicycle and pedestrian consideration into project planning	L	L	L	L	L	M					Executive Order
	GOAL: Equitable distribution of benefits and impacts of transportation network										-- Increase in number of transit riders -- changes in mode share -- improvements in air quality on a geographic basis (today to 2017) -- decrease in care utilization/registration among households -- increase in number of bikers -- decrease in number of trucks in low-income neighborhoods -- Reduction in non-ADA compliant ramps or streets	
21	Design freight systems and the movement of freight so that disadvantaged or poorly located communities are not negatively affected.	L	M	M	M	H	H			DDOT		Policy, regulation
22	Install bike lanes to and through Wards 7 and 8, improving North/South connections and bridge connections to and from.									DDOT		Administrative, Funding
23	Increase transit service and use, especially in low-income and underserved communities, without increasing the cost to the rider	H	H	H	H	H	H			DC Council, WMATA Board, MD/VA?		Funding, Administrative
24	Make all streets ADA compliant								Built Environment	DDOT, NPS, Architect of the Capitol		Administrative, funding
	GOAL: Robust and resilient transportation network										-- Decrease in evacuation time -- decrease in injuries and fatalities during severe weather events -- decrease in system closures and downtime -- increase in continuity of operations (up time)	
25	Redundant bike and pedestrian infrastructure and facilities to support use (such as bike parking)									DDOT		Administrative
26	Prepare plans for operating in extreme weather conditions or during emergencies	M	L	L	L	L	L			HSEMA, DDOT, WMATA		Administrative

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	GOAL: Improved quality of life for all District residents and visitors										-- population growth -- decrease in traffic injuries and fatalities in absolute and as rate -- increase in residents' physical activity -- decreases in obesity and related health indicators	
27	Implement zoning and planning regulations that support District neighborhoods which provide basic amenities (including schools, health care, businesses and residential cores)	M	M	M	H	L	H		Built Environment	OP		
28	Create an education program that explains the benefits of walking, biking, and transit--including lower infrastructure costs, commercial and economic benefits, health-related benefits of physical fitness--while also explaining safety, reliability, and convenience of non-auto travel modes	L	L	L	L	M	L			DDOT, DMV, DCPS		Education initiative
Waste												
1	By the 2014-2015 school year, establish an environmental curriculum in schools, including standards for environmental literacy and locally relevant content designed to support resource recovery and waste management goals. - Establish a leadership structure managed by someone appointed through OSSE by year-end 2012. - Implement curriculum systemwide by 2014-2015 school year (look at Montgomery County curriculum as model). - Schools establish environmental management systems (EMS) or similar plans by 2014 to provide working example of values taught in curriculum. (see http://www.sustainableschools.org/take-action/stage-3/sustainability-management-systems for sample plan)								All	OSSE, Deputy Mayor of Education, Chancellor's Office, DCPS, DPW and DDOE	Recycling rate in school, tests/exams, competition between schools	Policy change, funding through budget process (education funding), and Healthy Schools Act.

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2	Require businesses in DC to acknowledge and agree to waste management responsibilities as part of their initial registration (COO) or DCRA license renewal process by January 1, 2014. <ul style="list-style-type: none">- Establish benchmarking requirements by 2014.- Establish incentives for strong performance (tax breaks for top 10%) by 2014- Make information available and revise DCRA forms 2014.- Establish penalties for poor performance by 2014.- Establish waste management workshop program to educate business owners by 2014.- Should become mandatory by 2014.								Built Environment, Green Economy	DCRA, DPW, DDOE, DSLBD	Increased compliance, increased recycling rate, EPP by businesses, tax break incentives, amount of penalties.	Policy change, enforced legislation, established fines, funding for additional government staff.
3	Increase accessibility and availability of public recycling and litter receptacles; increase street recovery of recyclables by 75% and decrease litter by 25% by 2015. <ul style="list-style-type: none">- Needs are assessed across wards by 2014.- Deputize DPW to run the public recycling and litter can program by 2012.								Built Environment	DPW and OAG	Recycle rate, litter rate	Funding for additional servicing and containers.
4	DPW will service all households in its service area with a three-stream (landfill, recyclables, compostables) collection process by 2018. <ul style="list-style-type: none">- Carve out space at Benning Rd or Ft Totten for private compost haulers.- Establish composting education program to address quality control issues by 2013.									DPW, DDOE, DGS, private sector company, OCP	Increased diversion from landfill.	Policy change, community education, redesign of infrastructure, funding source.
5	Make working filtered public water fountains available in all public parks and playgrounds by 2015.								Water	DC Water (extension of TAPIT program), BIDs, National Park Service	Decrease of purchases of bottled water, increase of purchases of reuseable water bottles	Funding for filters, maintenance/design
6	DGS, DPW, and DDOE, will establish an overarching waste education campaign which will create toolkits for various sectors (residents, employees, businesses) by 2014.								All	DGS, DPW, DDOE	Increase in diversion rates.	Funding for focus groups, funding for materials.
7	1. DPW will convert a section of the <i>current</i> transfer station to a transfer station for compostable materials (including food waste) within 12 months; 2. the District will have a <i>new</i> organics transfer station within DC in 18 months.									1. DPW, 2. DPW and DC Office of Zoning	1. Within the year, compostable materials can be hauled to a current transfer station (Fort Totten?). 2. In 18 months, compostable materials ca be hauled to a transfer station that is 100% for compostable materials.	1. Figure out the permit parameters and clear a section of current transfer station for organics. 2. Figure out the permit parameters (goes hand in hand with above), find a site for setting a transfer station and build a transfer station.

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8	Within 12 months, the Mayor and DC Council will propose a region-wide beverage container deposit legislation to the Chesapeake Executive Council.								Built Environment, Green Economy, Water	Mayor, Chesapeake Bay state governors, EPA Administrator	In 12 months, a region-wide bottle bill will be proposed and in 2013, campaign team is formed to work on the legislation.	Get stakeholder and community group involvement, MD and DC need to collaborate (VA probably won't). Do an audit on recycling rates in MD, DC to see the baseline for Bottle Bill efficacy. Study different bottle bills models to ensure DC/MD has a system that works and succeeds in the region. Collect data on public opinion and impacts of beverage containers.
9	The District government will establish the framework for C&D recycling and certification by 2015. The DC Council will pass legislation requiring a minimum C&D recycling rate of 75% for all LEED certified buildings in DC. Only an ISO certified facility can issue recycling documentation. By 2014, Mayor Gray shall introduce legislation requiring all new construction and major renovation projects to recycling and/or reuse 75% (?) of C&D debris. Contractors/owners (?) must provide documentation prior to obtaining certificate of occupancy. The legislation must include a mandatory salvage period before demolition such that licensed salvagers have the opportunity to salvage items. There will need to be a mechanism to track what salvagers collect in order to demonstrate the C&D recycling/re-use rate.								Built Environment	DCRA, DPW, Mayor / Council, private salvage companies, community forklift, habitat for humanity, junk in the trunk, Brass Knob, DCBIDA, Washington BIDG congress(?)	C&D rubbish, recycling, and re-use rates are not currently tracked. Tracking must be implemented ASAP in order to set a baseline. Indicators of success will be decreased C&D rubbish generation rates and increased C&D recycling and re-use rates.	introduce legislation, develop implementation plan. Funding will probably be via a permit fee or deposit. Ideas include 1 - Consider charging a refundable deposit as part of the building permit. When proper documentation of C&D recycling rate is provided, the C of O is issued and the deposit is returned. 2 - Consider making the refund on a sliding scale: 75% recycle/re-use = refund of 75% of the deposit (so a 25% fee), 80% recycle/re-use = refund of 80% of the deposit (a 20% fee), 90% recycle/re-use = refund of 90% of the deposit (a 10% fee).

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10	By 2018, the District government shall create financial incentives to encourage organics recycling; design tax incentives/economic incentives to promote recycling and reuse, including organics and waste oil.									DPW, OCFO. For waste oil: DDOT, DCRA, BIDs, DPW, DDOE, WASA (oils and fats are a problem for them), DOH (currently regulates restaurant oil and fat) DC Biofuels, Keystone, Greenworks , Greenlight, Envirelation, other Sm. Businesses, private biodiesel production company, restaurants, A panel of residents using WVO and biodiesel for cars and home boilers, A panel of small businesses using WVO and biodiesel for operations	By the 20115, need a compost facility, residents have compost toters, 2015-20% of residents participating; 2018-40% of residents participating; 2022-75% of residents participating. # of registered alternative fuel users/manufacturers, % of collected grease that remains in DC for reuse	Policy to have recycling and composting covered by tax and trash hauling service needs to be paid out of pocket. Study incentives and pricing based on container sizes and collection rates (times/week that truck comes around), for pilot. Retrofit trucks/contract private collectors. Set up a grease exchange to help residents who need used cooking oil (for fuel or home heating) to collect it from businesses, and to help residents who need to discard used cooking oil find a place to dispose of it properly. Funding: 'Recovered road taxes' (one of the problems that people have with biodiesel and grease use is that DIYers aren't paying road taxes when they purchase fuel, although they still use roads. California charges a tax per gallon of fuel you used, this is calculated on an honor system) . Saved fuel costs? A Registration fee for processors (on a sliding scale so that DIYer pay very little). Reg development will take funds, but after that registration fees should cover an inspection program and a technical assistance program (mainly for DIYers), Air Quality grant (? Is there such a thing?) Pollution Prevention grant(?) WASA grant or subsidy (less grease in the sewer would benefit them),
11	The District will enact a 10 cent fee on the retail sale of disposable plastic containers and a 50 cent fee on retail packing materials sold. Funds to Anacostia Restoration and Recovery Fund. DDOE to enforce the fee. Ban both by 2020.									DPW, OCFO, DDOE	Start the fee in 2014, ban on polystyrene containers in 2020, ban on retail packing materials by 2020	policy, need to research and strategize the best plan after comparison to other cities, collect data on the impacts of polystyrene containers, including litter, health and others.
13	The DC Council shall create a special committttee to develop a regulatory framework which allows on-site composting (up to x amount with proper stormwater, aerate, and leachate controls) at private and public facilities by 2013.									DPW, DDOE, EPA, composters,	Committee created and regulation created.	Come up with what ("X") amount constitutes as on-site composting.

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14	MPD shall 1) expand its fourth district litter enforcement pilot to the entire city, 2) participate in litter enforcement month (April) annually, 3) establish tracking and reporting mechanism for citations, 4) re-establish the environmental crimes unit by 2013, and 5) the District shall establish an environmental crimes court by 2015. Current business recycling regulations must be enforced.								Green Economy	DPW, MPD, DDOE, District of Columbia Courts, Alice Fergusson foundation, River Keepers, WASA	track the amount of trash removed from rivers and streams (the band-a-longs and also clean up events) and track the amount of trash removed from streets by street sweepers. The amounts should decrease over time. Track litter citations issued. Less litter and less illegal dumping should result in less vermin and an improvement in stream water quality and the overall livability of the city.	Current business recycling regulations must be enforced. Establish the new court. Re-establish environmental crimes unit (or similar). Develop method to catch illegal dumpers in the act (sting operation?). fines could provide some of the funds for the program
15	The District shall form a taskforce to explore waste-to-energy and waste conversion technology options outside of incineration / mass burn for the District by 2013. The task force must take into consideration decreased C&D waste levels (i.e. less wood will be available) driven by another line item.								Energy	public utilities, DMPED, DDOE-AQD, DDOE-Energy office, DDOE-HW program, DPW, private waste management companies, Sustainable Energy Utility	blank	Form task force. Funding: placing a waste to energy unit at Ft Totten would allow the energy to be provided to METRO due to proximity. The energy would offset the District's financial contribution to METRO's operating expenses.
16	By 2014, DPW will incentivize composting and recycling by residents receiving city-provided collection services. Options to investigate include decreasing the size of trash cans, charging a fee to acquire a larger trash can, providing larger recycling cans (for free), providing additional recycling cans (for free), and implementing a pay-as-you-throw plan for rubbish or true-waste.									DPW, private haulers (i.e. DPW could subcontract composting to a private hauler?)	Quantities of recycling and 'rubbish' collected by the city are currently tracked, decreased rubbish generation will be evident over time	Composting needs to be facilitated (addressed under another line item). Community education in recycling and composting will be required, consider using the summer student program to provide small group training sessions at the community, neighborhood, ANC, or street level. Funding: Pay as you throw will offset some expenses. Decreased rubbish quantities will result in decreased tipping fees at landfills. Composting should be less expensive than rubbish collection and land filling. Consider allowing advertising on cans to fund this initiative.

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18	By 2015, a public-private partnership will be established to create a center for reuse-oriented business incubation and community reuse activities and community reuse drop off centers.									DGS (controls much of DC owned buildings and land), private salvage companies, up-cyclers, community forklift, habitat for humanity, junk in the trunk, Brass Knob, DCBIDA, Washington BIDG congress(?), DC Freecycle, re-use network, craigslist	decreased rubbish generation rates	Identify locations for swapping, set limitations on items allowed (no fire arms, prescription medications, etc) and set time limits for storage to avoid creating a dump. For example: residents get first choice for X amount of time, non profits get second choice for x amount of time, salvage and second hand shops get third choice. After a fixed amount of time, unclaimed items will be recycled or discarded. Funding: Donations? Charge businesses a fee for the items they want (\$1 per lbs or \$1 per item?)

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27	By 2013, DPW, DGS, and DDOE will integrate and launch a multi-media anti-littering awareness campaign based in local imagery and diversity, including pet waste, cigarette butts, and tires. The campaign shall utilize the visuals and inter-jurisdictional impact of the Regional Litter Prevention Campaign and the outreach tactics of Not In OUR DC!.								Nature, Water, Transportation, Built Environment			
29	The District government shall engage in the national discussion on Extended Producer Responsibility, including product stewardship and producer takeback of difficult to recycle items and smart packaging. Investigate option of a national program or partnering with neighboring states.										% of population impacted, diversity of modes of outreach, number and diversity of community groups utilized to get the word out, number of school presentations given on litter prevention and awareness.	
30	Businesses should use/provide products with simple and responsible reuse and takeback options											
31	By 2016, DCRA will work with DPW and DOH to develop a permitting scheme whereby contiguous businesses can share a single disposal/recycling/composting container that may be in public space. There shall be a process to review and approve innovative business resource management plans. Example: allow 3 neighboring businesses to share one rubbish bin, one recycling bin, and one compost bin								Transportation, Built Environment, Food	DOH, DCRA, DPW, small businesses, apartment complexes		modify any policies that mandate or imply that each business must contract for non-shared recycling and rubbish collection bins. Develop an innovation support and review program and / or a small business technical assistance program.
32	Grassroots support, community for small-scale backyard composting, community gardens											
Water												
1	(1) Expand Green Infrastructure / Low-Impact Development - 100% of new public space/right of way projects (roads, alleys, sidewalks) will utilize LID (e.g. curb cuts with rain gardens, tree planting, bayscaping, biorention cells) to treat the first 1.2" of runoff. Additionally retrofit 25% of right of way. If the 1.2" standard cannot be met in the ROW of the project area, the difference will be made up in other ROW offsets.									acres of LID retrofit, percent District land, percent federal land		DDOT, DDOE, DC Water,
2	(2) Reuse greywater - Remove regulatory barriers and incentivize the capture and reuse of nonpotable water resources									number of systems installed, volume captured, percent smart meters	Strategy for quantifying use, Identify barriers, develop incentive	DC Water, DCRA, Dept. of Health, DDOE
3	(1) Expand Green Infrastructure / Low-Impact Development - Retrofit 100% of District-owned schools, recreation centers and libraries (DCPS + Charters, DPR, DCPL) with LID as they are modernized to retain and reuse all stormwater									percent of facilities retrofitted		DDOE, DCPS, DPR, DCPL, OSSE, DGS

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4	(3) Reduce Stormwater / Improve Stormwater Retention & filtration on buildings & lots - Increase tree canopy cover by 25% to help restore water retention and natural hydrology									percent canopy cover		DDOE, DDOT, DGS, NPS
5	(1) Expand Green Infrastructure / Low-Impact Development - Incentivize LID on private property by expanding the RiverSmart suite of programs for residents and businesses to install LID and increase impact by targeting critical facilities (e.g. parking lots and large properties)									Number of properties retrofitted, number of acres retrofitted, reduction of stormwater utility fee		DDOE, DC Greenworks, Anacostia Watershed Initiative, ASLA
6	(4) Prevent trash and pollutants from entering the District's waters - Develop legislation for and pass a 'Bottle Bill' to reduce plastic bottle trash									legislation exists within 5 years, number of bottles collected, reduction in bottles found in waterways	revisit amount of deposit or tie to inflation	DDOE, DGS, Council
7	(1) Expand Green Infrastructure / Low-Impact Development - Measure, monitor and develop performance metrics for the installation and maintenance of LID; use university partnerships to do studies on resulting water quality outcomes to see if goals are being reached in a cost effective manner									Number of reports, number of metrics, number of best practices identified, number of partnerships, number of new regulations as result	determine scope of reports, create partnerships, develop new regulations based on report	District universities
8	(1) Expand Green Infrastructure / Low-Impact Development - Create a permanently funded LID maintenance corps to take care of LID installments and increase job opportunities in the District									Number of jobs created, percent of LID facilities being properly maintained,	Determine funding source, identify similarly structured corps, identify governing agency/partner	DDOE, DOES, DGS
9	(3) Reduce Stormwater / Increase - Minimize incidents of combined sewer overflows									Percent of CSO reductions, number of CSO events		DC Water, DDOE

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10	(5) Restore Natural Habitat to the District's Waters and surrounding Ecosystems - Assess and increase the number acres of wetlands planted along the Anacostia and Potomac to create buffers for wetlands and streams, and habitat corridors for wildlife (inc. study the removal of seawalls)									number of acres of wetlands created, linear feet of seawall removed, percent of seawall removed, percent increase in wetlands		DDOE, NPS, Army Corps of Engineers
11	(6) Find a permanent funding stream to sustainably fund related programs - Create a permanent DC revolving fund dedicated to sustainability (which cannot be returned to general funds) that includes the construction and maintenance of green infrastructure									total amount of money dispersed from fund, amount of money in fund, annual amount of funds dispersed	Identify funding source(s)	DDOE, Budget office
12	(5) Restore Natural Habitat to the District's Waters and surrounding Ecosystems - Continue pace of at least one stream (including daylighting) or outfall restoration project a year with a goal of restoring all tributaries by 2032									number of stream, daylighting, outfall projects per year, percent of streams restored		DDOE
13	(6) Increase Public Access to, and Recreational Opportunities in, the District's Waters - Expand signed hiking/biking trails, sports facilities, boardwalks, parks and recreational areas, boat ramps and docks on the Potomac and Anacostia Rivers in key areas of redevelopment (e.g. RFK, Poplar Point, Kenilworth Aquatic Gardens, SW Waterfront, Capital Riverfront)									number of miles of trails, usage of facilities, number of access points, acres of recreational facilities		DDOE, DPR, DDOT, NPS, RFK, Arboretum, Developers

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14	(3) Reduce Stormwater / Improve Stormwater Retention & filtration on buildings & lots - Adopt building codes that raise the standard for water efficiency for existing buildings, and incentivize code performance for new and existing buildings									number of existing buildings retrofitted to new standards, develop high volume user surcharge	Identify current codes, submit and pass legislation	
15	(7) Build Relationships with the Jurisdictions that share our Waterways - Develop and implement an interstate compact with MD to set limits on all pollutants									compact developed, utilize bioaccumulators (fish, mollusks) to examine reductions in pollutants from MD, mitigation of upstream hotspots by reducing persistent bioaccumaltive toxics	additonal resources needed for Universities, define "pollutants" (should be beyond just toxins)	MD, Council, DDOE
16	(8) Make clean and affordable drinking water available to everyone - Expand and enhance the accessibility of drinking water in public spaces									number of public drinking water points (# District, # federal), number of Tap It locations		DC Water, DPR, NPS, private businesses

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17	(9) Demonstrate and test best practices through District Gov't pilots - Use large parcels and iconic DC sites (e.g. Walter Reed, St. Elizabeths East) as demonstration projects for sustainable water techniques and technologies, potentially leading to a long-term requirement to only use greywater in government watering/irrigation									number of facilities developed/redeveloped with sustainable water techniques, new LID requirements based on results of demonstration projects, percent of District irrigation using greywater		DMPED, OP, DDOE
18	(8) Make clean and affordable drinking water available to everyone - Develop District-wide educational campaign about water efficiency/conservation delivered by an objective third party									reductions in water use, increase in understanding of water efficiency, reduction in purchase of bottled water purchases	Develop curriculum and campaign	DCPS, DC Water, DDOE, OCT
19	(10) Prevent trash and pollutants from entering the District's waters - Reduce trash in District rivers and streams, particularly targeting sources of prevalent trash such as plastic water bottles									tons of trash removed, percent reduction in trash found in waterways		DDOE, Groundworks Anacostia, AWI